1	IN THE CLAIMS:
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3	Clean version of the pending claims:
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5	1. A method of using Si-Ge-C in selective etch applications, comprising:
6	growing one or more layers on a single crystal silicon substrate, at least one of
7	which is a Si-Ge-C layer, wherein the carbon of the Si-Ge-C layer is an amount from
8	to 10 atomic percent and sufficient to exhibit etch selectivity with respect to the single
9	crystal silicon substrate and/or one or more of the layers adjacent the Si-Ge-C laye
10	and
11	etching with a liquid etchant, the Si-Ge-C layer and the single crystal silico
12	substrate and/or one or more of the layers adjacent the Si-Ge-C layer.
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14	49. The method of claim 1, wherein the Si-Ge-C layer etches slower than th
15	one or more adjacent layers.
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17	50. The method of claim 1, wherein the Si-Ge-C layer etches slower than the
18	single crystal silicon substrate.
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20	51. The method of claim 1, wherein the Si-Ge-C layer etches faster than the one
21	or more adjacent layers.
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23	52. The method of claim 1, wherein the Si-Ge-C layer etches faster than the
24	single crystal silicon substrate.
25	50. The weatherd of claim 4 subscript he stables includes applying an atabant
53. The method of claim 1, wherein the etching includes applying an selected from the group of KOH and HNA. 27	
	selected from the group of NOT and TINA.
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2	54. A method of using Si-Ge-C in selective etch applications in conjunction with
3	a single crystal substrate, comprising:
4	growing one or more epitaxial layers sequentially, starting at the single crysta
5	substrate surface, wherein at least one of the epitaxial layers comprises Si-Ge-C
6	wherein the carbon of the Si-Ge-C layer is from 1 to 5 atomic percent; and
7	etching with a liquid etchant, the Si-Ge-C layer and the single crystal substrate
8	and/or one or more of the epitaxial layers adjacent the Si-Ge-C layer.
9	
10	55. The method of claim 54, wherein the Si-Ge-C layer etches slower than the
one or more adjacent epitaxial layers.	one or more adjacent epitaxial layers.
12	
13	56. The method of claim 54, wherein the Si-Ge-C layer etches slower than the
14	single crystal substrate.
15	E7. The method of claim E4, wherein the Si Co C lover etches factor than the
16	57. The method of claim 54, wherein the Si-Ge-C layer etches faster than the one or more adjacent epitaxial layers.
17 One of more adjacent epitaxial layers.	one of more adjacent opticizing layers.
18	58. The method of claim 54, wherein the Si-Ge-C layer etches faster than the
19	single crystal substrate.
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substrate is a material selected from the group of silicon, silic germanium.	59. The method of claim 54, 55, 56, 57, or 58, wherein the single crystal
	substrate is a material selected from the group of silicon, silicon-germanium, and
	germanium.
24 25	
26	60. The method of claim 54, wherein the etching includes applying an etchan
selected from the group of KOH and HNA. 27	selected from the group of KOH and HNA.
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ı	61. A method of using Si-Ge-C in selective etch applications in conjunction with
2	a substrate, comprising:
3	growing one or more layers sequentially, starting at the substrate, wherein a
4	least one of the layers comprises Si-Ge-C, wherein the carbon of the Si-Ge-C layer is
5	from 1 to 10 atomic percent; and
6	etching with a liquid etchant, the Si-Ge-C layer and one or more layers adjacent
7	to the Si-Ge-C layer and/or the substrate.
8	
9	62. The method of claim 61, wherein the Si-Ge-C layer etches slower than the
10	one or more adjacent layers.
11	
12	63. The method of claim 61, wherein the Si-Ge-C layer etches slower than the
13	substrate.
14	
15	64. The method of claim 61, wherein the Si-Ge-C layer etches faster than the
16	one or more adjacent layers.
17	GE. The method of claim G1, wherein the Ci Co C layer atches factor than the
18	65. The method of claim 61, wherein the Si-Ge-C layer etches faster than the
substrate.	Substrate.
20	66. The method of claim 61, 62, 63, 64, or 65, wherein the substrate is a
21	material selected from the group of silicon, silicon-germanium, and germanium.
22	material concerns from the group of emeen, emeen germann, and germanner.
23	67. The method of claim 61, wherein the etching includes applying an etchant
24	selected from the group of KOH and HNA.
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68. A method of using Si-Ge-C in selective etch applications, comprising:

growing one or more layers on a single crystal silicon substrate, at least one of which is a Si-Ge-C layer, wherein the carbon of the Si-Ge-C layer is in an amount from 1 to 10 atomic percent and sufficient to exhibit etch selectivity with respect to the single crystal silicon substrate and/or one or more of the layers adjacent the Si-Ge-C layer; and

etching with a liquid etchant, the Si-Ge-C layer and the single crystal silicon substrate and/or one or more of the layers adjacent the Si-Ge-C layer wherein the Si-Ge-C layer etches slower than the one or more adjacent layers.

69. A method of using Si-Ge-C in selective etch applications, comprising:

growing one or more layers on a single crystal silicon substrate, at least one of which is a Si-Ge-C layer, wherein the carbon of the Si-Ge-C layer is in an amount from 1 to 10 atomic percent and sufficient to exhibit etch selectivity with respect to the single crystal silicon substrate and/or one or more of the layers adjacent the Si-Ge-C layer; and

etching with a liquid etchant, the Si-Ge-C layer and the single crystal silicon substrate and/or one or more of the layers adjacent the Si-Ge-C layer wherein the Si-Ge-C layer etches faster than the one or more adjacent layers.

70. A method of using Si-Ge-C in selective etch applications in conjunction with a single crystal substrate, comprising:

growing one or more epitaxial layers sequentially, starting at the single crystal substrate surface, wherein at least one of the epitaxial layers comprises Si-Ge-C, wherein the carbon of the Si-Ge-C layer is up to 5 atomic percent; and

etching with a liquid etchant, the Si-Ge-C layer and the single crystal substrate and/or one or more of the epitaxial layers adjacent the Si-Ge-C layer wherein the Si-Ge-C layer etches slower than the one or more adjacent epitaxial layers.

1	71. A method of using Si-Ge-C in selective etch applications in conjunction with
2	a single crystal substrate, comprising:
3	growing one or more epitaxial layers sequentially, starting at the single crystal
4	substrate surface, wherein at least one of the epitaxial layers comprises Si-Ge-C,
5	wherein the carbon of the Si-Ge-C layer is up to 5 atomic percent; and
6	etching with a liquid etchant, the Si-Ge-C layer and the single crystal substrate
7	and/or one or more of the epitaxial layers adjacent the Si-Ge-C layer wherein the Si-Ge-
8	C layer etches faster than the one or more adjacent epitaxial layers.
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10	72. A method of using Si-Ge-C in selective etch applications in conjunction with
11	a substrate, comprising:
12	growing one or more layers sequentially, starting at the substrate, wherein at
13	least one of the layers comprises Si-Ge-C, wherein the carbon of the Si-Ge-C layer is
14	up to 10 atomic percent; and
15	etching with a liquid etchant, the Si-Ge-C layer and one or more layers adjacent
16	to the Si-Ge-C layer and/or the substrate wherein the Si-Ge-C layer etches slower than
17	the one or more adjacent layers.
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19	73. A method of using Si-Ge-C in selective etch applications in conjunction with
20	a substrate, comprising:
21	growing one or more layers sequentially, starting at the substrate, wherein at
22	least one of the layers comprises Si-Ge-C, wherein the carbon of the Si-Ge-C layer is
23	up to 10 atomic percent; and
24	etching with a liquid etchant, the Si-Ge-C layer and one or more layers adjacent
25	to the Si-Ge-C layer and/or the substrate wherein the Si-Ge-C layer etches faster than
26	the one or more adjacent layers.
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